

Form OGC-1a

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. Lease Designation and Serial No.

ML-28598

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name

STATE OF UTAH "P"

9. Well No.

#1

10. Field and Pool, or Wildcat

Wildcat - Great Salt Lake

11. Sec., T., R., M., or Bk.  
and Survey or Area

Sec. 10, T7N, R8W

12. County or Parrish 13. State

Box Elder Utah

1a. Type of Work

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. Type of Well

Oil Well ☒Gas Well ☐

Other

Single Zone ☐Multiple Zone ☐

2. Name of Operator

AMOCO PRODUCTION COMPANY

3. Address of Operator

P.O. Box 17675 Salt Lake City, Utah 84117

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface

SW/NE/SW

1700' FSL &amp; 1700' FWL \*

At proposed prod. zone

14. Distance in miles and direction from nearest town or post office\*

15. Distance from proposed\*  
location to nearest  
property or lease line, ft.

(Also to nearest dirg. line, if any)

16. No. of acres in lease

17. No. of acres assigned  
to this well18. Distance from proposed location\*  
to nearest well, drilling, completed,  
or applied for, on this lease, ft.

19. Proposed depth

Rotary or cable tools

21. Elevations (Show whether Dirg. or not, etc.)

6,500'

Rotary

22. Approx. date work will start\*

4200' Lake Level

When Approved

## 23. PROPOSED CASING AND CEMENTING PROGRAM

| Size of Hole     | Size of Casing | Weight per Foot | Setting Depth | Quantity of Cement   |
|------------------|----------------|-----------------|---------------|--|
| conductor-driven | 30"            |                 | 60'           | driven   |
| conductor        | 20"            |                 | 300'          | driven   |
| 17 1/2"          | 13 3/8"        | 61#, 68#        | 3350'         | Class "G" to surface   |
| 12 1/4"          | 9 5/8"         | 54.5#<br>40#    |               | Cement across pay, if no<br>shows below Basalt, 9 5/8"<br>will be set as liner |

\*approximate footage location, exact location to be furnished upon completion  
and preparation of surveyor platsAPPROVED BY THE DIVISION OF OIL, GAS, AND MINING  
PROPOSE TO TEST PALEOZOIC FOR HYDROCARBON  
POTENTIAL

DATE: 8-19-80

(See Attachments)

BY: M. J. Minner

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Signed

E. R. Nicholson

Title

Administrative Supervisor

Date

August 11, 1980

(This space for Federal or State office use)

Permit No.

Approval Date

Approved by

Title

Date

Conditions of approval, if any:

\*See Instructions On Reverse Side

ATTACHMENT TO FORM OGCC-1a

State of Utah 'P' #1

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1. Geologic name of the surface formation: Tertiary

2. Estimated tops of geological markers:

|            |       |
|------------|-------|
| Basalt:    | 3200' |
| Miocene:   | 3700' |
| Paleozoic: | 6100' |

3. Estimated depths anticipated to encounter water, oil or gas and other mineral-bearing formations:

See Item #2 above

4. Casing Program: See Form OGCl-a, Item #23

5. Operators specifications for pressure control equipment are shown on the attached schematic diagram. Testing of such shall be in accordance with the "Operating Rules and Regulations Governing Drilling Procedures in the Great Salt Lake".

6. Mud Program:

Surface to Total Depth: Low solids, non-dispersed 8.6#-8.9#  
Viscosity 30-40 sec.

7. Testing Program:

Borehole Gravimeter, Temperature Survey, Televiewer,  
and Velocity Survey to be run at TD. Intervals to be  
determined by exploration department.

Logging Program:

|              |                              |
|--------------|------------------------------|
| DIL-SFC      | Base of conductor pipe to TD |
| BHC-GR Sonic | " " " "                      |
| CNL-FDC      | " " " "                      |
| Dipmeter     | " " " "                      |

Coring Program:

60' core - 3200' - Pliocene Basalt  
60' core - 3700' - Miocene

Stimulation Program:

To be determined by the District Office upon completion  
of drilling operations

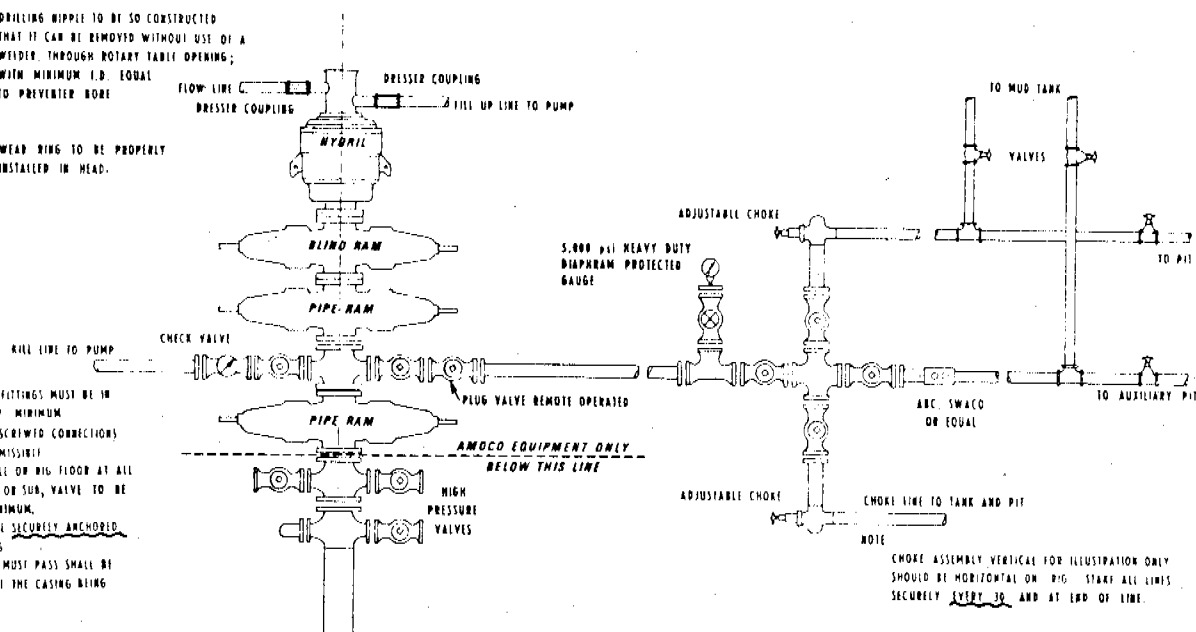
8. No abnormal pressures, temperatures are anticipated.
9. It is anticipated that drilling operations will commence when approved and duration of operations will be approximately 45 days.
10. State of Utah "P" #1 will be drilled in compliance with the State of Utah "Operating Rules and Regulations Governing Drilling Procedures in the Great Salt Lake" adopted July 18, 1973. An Oil Spill Contingency Plan is on file with your office.

EXHIBIT BOP-5000  
MINIMUM BLOW-OUT PREVENTER REQUIREMENTS  
5,000 psi W.P.

NOTE

1. DRILLING NIPPLE TO BE SO CONSTRUCTED THAT IT CAN BE REMOVED WITHOUT USE OF A WELDER, THROUGH ROTARY TABLE OPENING, WITH MINIMUM I.D. EQUAL TO PREVENTER BORE

2. WEAP RING TO BE PROPERLY INSTALLED IN HEAD.



NOTE

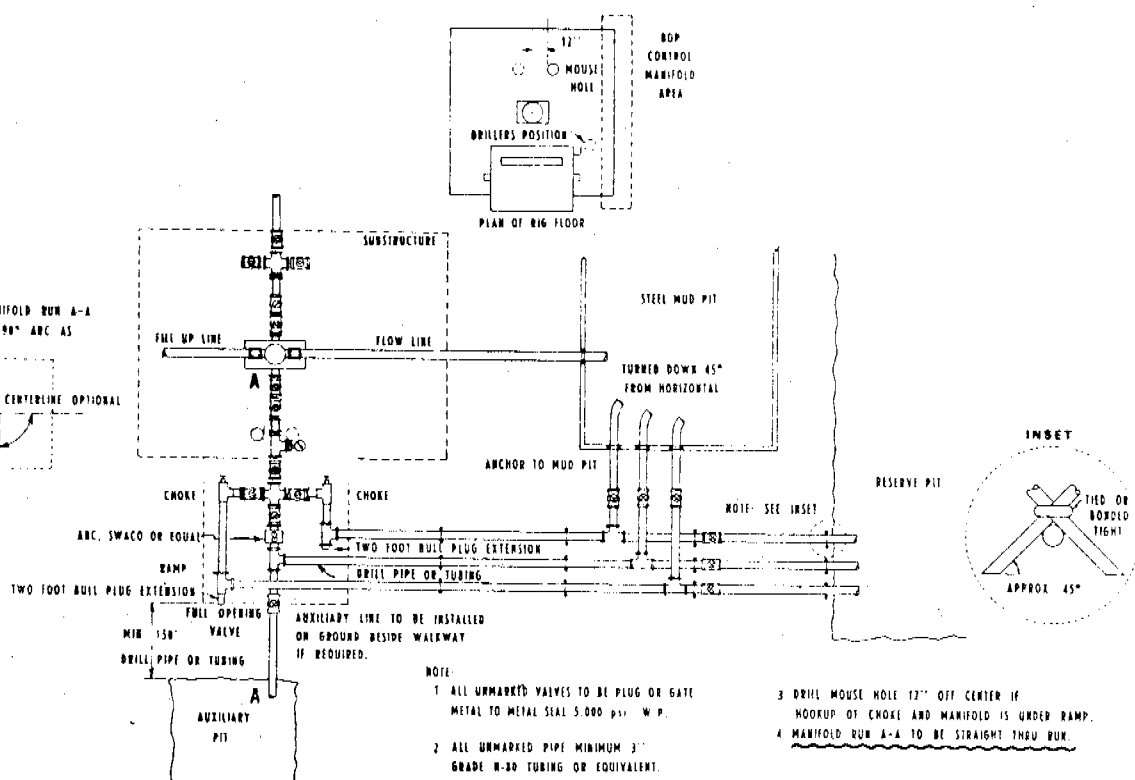
1. BLOW-OUT PREVENTERS AND ALL FITTINGS MUST BE IN GOOD CONDITION 5,000 psi W.P. MINIMUM
2. ALL FITTINGS TO BE FLANGED. SCREWED CONNECTIONS DOWNSTREAM FROM CHOKES PERMISSIBLE
3. SAFETY VALVE MUST BE AVAILABLE ON RIG FLOOR AT ALL TIMES WITH PROPER CONNECTION OR SUB. VALVE TO BE FULL BORE 5,000 psi W.P. MINIMUM
4. ALL CHOKES AND KILL LINES TO BE SECURELY ANCHORED, ESPECIALLY ENDS OF CHOKES LINES
5. EQUIPMENT THROUGH WHICH BTL MUST PASS SHALL BE AS LARGE AS INSIDE DIAMETER OF THE CASING BEING DRILLED THROUGH
6. KELLY COLL OR KELLY
7. EXTENSION WRENCHES AND HAND WHEELS TO BE PROPERLY INSTALLED AND BRACED AT ALL TIMES
8. RIG FLOOR BLOW-OUT PREVENTER CONTROL TO BE LOCATED AS CLOSE TO DRILLERS POSITION AS FEASIBLE
9. BLOW-OUT PREVENTER CLOSING EQUIPMENT TO INCLUDE 50 GALLON ACCUMULATOR, TWO INDEPENDENT SOURCES OF PUMP POWER ON EACH CLOSING UNIT INSTALLATION, AND MEET ALL TABC SPECIFICATIONS

NOTE  
ALL VALVES TO BE FULL OPENING

NOTE  
CHOKES ASSEMBLY VERTICAL FOR ILLUSTRATION ONLY SHOULD BE HORIZONTAL ON RIG. SECURE ALL LINES EVERY 30' AND AT END OF LINE.

NOTE:

DIRECTION OF MANIFOLD RUN A-A OPTIONAL WITHIN 90° ARC AS SHOWN BELOW

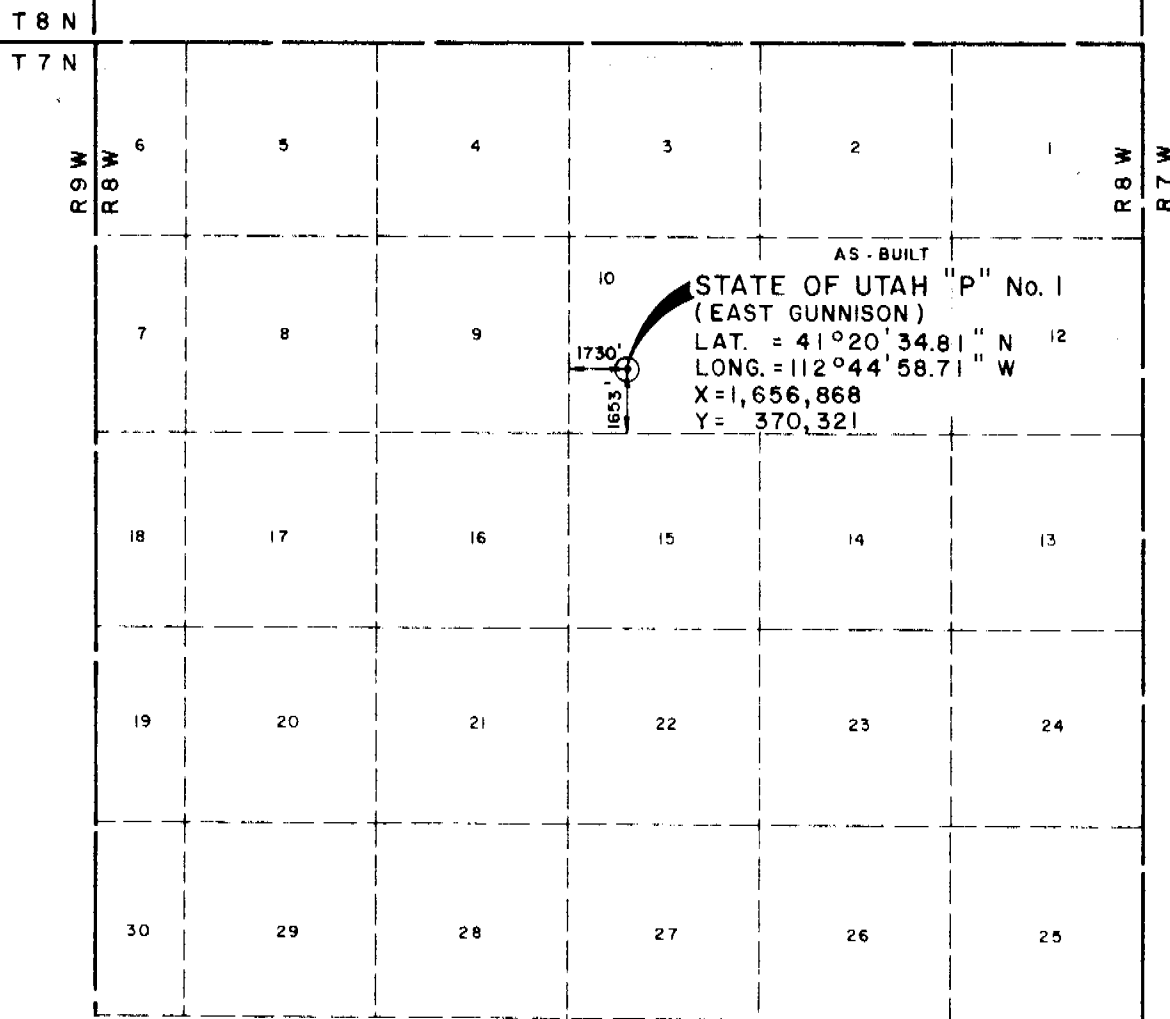


NOTE:

1. ALL UNMARKED VALVES TO BE PLUG OR GATE METAL TO METAL SEAL 5,000 psi W.P.
2. ALL UNMARKED PIPE MINIMUM 3" GRADE N-80 TUBING OR EQUIVALENT.

3. DRILL MOUSE HOLE 12" OFF CENTER IF HOOKUP OF CHOKES AND MANIFOLD IS UNDER RAMP.
4. MANIFOLD RUN A-A TO BE STRAIGHT THRU RUN.

Amoco Production Company  
STANDARD ASSEMBLY FOR FLUID  
OPERATED TRIPLE BLOW-OUT PREVENTER  
5,000 psi W.P.



SCALE 1" = 1 MILE

### CERTIFICATE OF SURVEYOR

I hereby certify that I am properly registered and licensed to practice land surveying in the State of Utah and that this plat represents a location survey made by me or under my supervision, and that all dimensions and other details are correct.



SEPT. 22, 1980  
Date

Richard C. Davis  
Surveyor

Date of Survey Sept. 24, 1980

AS-BUILT  
STATE OF UTAH "P" No. 1  
(EAST GUNNISON)

Located in the Protracted  
SW 1/4 SEC. 10, T. 7 N., R. 8 W., SALT LAKE MERIDIAN, UTAH

Surveyed for

AMOCO PRODUCTION CO.  
Salt Lake City, Utah

Surveyed by

F. M. LINDSEY & ASSOC.

LAND & HYDROGRAPHIC SURVEYORS  
2502 West Northern Lights Boulevard Box 4-081  
Anchorage Alaska

### NOTE:

- Coordinates are Utah State Plane, North Zone.

# CONFIDENTIAL

\*\* FILE NOTATIONS \*\*

DATE: Aug 14, 1980

OPERATOR: Amoco Production Co.

WELL NO: State P #1

Location: Sec. 10 T. 7N R. 8W County: Box Elder

File Prepared: ☒

Entered on N.I.D: ☒

Card Indexed: ☒

Completion Sheet: ☒

API Number 43-003-30016

## CHECKED BY:

Petroleum Engineer: \_\_\_\_\_

Director: OK in accordance with the order issued in  
case 150-2 dtd Nov 20, 1974 provide a  
survey plat furnished when available.

Administrative Aide: \_\_\_\_\_

## APPROVAL LETTER:

Bond Required: O.K.

Survey Plat Required: ☒

Order No. 150-2

O.K. Rule C-3 ☒

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site

Lease Designation State

Plotted on Map ☒

Hot Line ☒

Approval Letter Written ☒

P.I. ☒

August 18, 1980

AMOCO Production Company  
P.O. Box 17675  
Salt Lake City, Utah 84117

RE: Well No. State P #1  
Sec. 10, T. 7N, R. 8W.,  
Box Elder County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well ~~is~~ hereby granted in accordance with the Order issued in Cause No. 150-2 dated March 20, 1974. However, said approval shall be conditional upon a surveyor's plat being furnished this office in accordance with Rule C-4(a), General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer  
HOME: 876-3001  
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is State P #1: 43-003-30016.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder  
Petroleum Engineer

/bh

cc: Donald Prince

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT TRIPLICATE\*  
(Other instructions on  
reverse side)

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

|   |  |  |
|---|--|--|
| 1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> P & A   |  | 5. LEASE DESIGNATION AND SERIAL NO.<br>ML-28598                      |
| 2. NAME OF OPERATOR<br>Amoco Production Company   |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME                                 |
| 3. ADDRESS OF OPERATOR<br>P.O. Box 17675 Salt Lake City, Utah 84117   |  | 7. UNIT AGREEMENT NAME   |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*<br>See also space 17 below.)<br>At surface<br>SW/4 NE/4 SW/4 Sec. 10 1700' FSL & 1700' FWL |  | 8. FARM OR LEASE NAME<br>State of Utah 'P'                           |
| 14. PERMIT NO.<br>43-003-30016  |  | 9. WELL NO.<br>#1  |
| 15. ELEVATIONS (Show whether DF, RT, GR, etc.)<br>8-18-80   |  | 10. FIELD AND POOL, OR WILDCAT<br>Wildcat - Great Salt Lake          |
|   |  | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA<br>Sec. 10, T7N-R8W |
|   |  | 12. COUNTY OR PARISH<br>Box Elder                                    |
|   |  | 13. STATE<br>Utah  |

16. Check appropriate box to indicate Nature of Notice, Report, or Other Data

| NOTICE OF INTENTION TO:                      | SUBSEQUENT REPORT OF:                            |
|--|--|
| TEST WATER SHUT-OFF <input type="checkbox"/> | WATER SHUT-OFF <input type="checkbox"/>          |
| FRACTURE TREAT <input type="checkbox"/>      | REPAIRING WELL <input type="checkbox"/>          |
| SHOOT OR ACIDIZE <input type="checkbox"/>    | ALTERING CASING <input type="checkbox"/>         |
| REPAIR WELL <input type="checkbox"/>         | ABANDONMENT* <input checked="" type="checkbox"/> |
| (Other) <input type="checkbox"/>             | (Other) <input type="checkbox"/>                 |

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

TD: 7843'

PBTD: 80'

Provided on the attached sheet are the approximate locations of cement plugs set in this well and other information on the plug back procedure.

See Attachments

Verbal approval received 10-16-80 from Jack Feight  
Utah Oil & Gas Commission

18. I hereby certify that the foregoing is true and correct

SIGNED

*E. R. Nicholas*

TITLE Administrative Supervisor

DATE 10-17-80

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



PLUG BACK PROCEDURE FOR STATE OF UTAH "P"

12 $\frac{1}{4}$ " hole TD @ 7843'  
13-3/8" csg cmt. in 17 $\frac{1}{2}$ " hole @ 3385" to sfc.  
20" drive pipe to 200', cmt inside 30"  
30" drive pipe to 103'  
Set 100 sx plug on bottom @ 7843'  
Set 100 sx plug @ 6000'  
Set 250 sx plug @ 5300'  
Set 162 sx plug @ 5062'  
Set 35 sx plug @ 4939'  
Set 285sx plug @ 3800'  
Set 110 sx plug @ 3590'  
Baker model KB pkr set @ 3370' for pump testing  
Set 200 sx plug @ 3370'  
Set 200 sx plug @ 350'  
Cut 13-3/8" casing @ 50'  
P & A on 10-16-80

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other \_\_\_\_\_

## b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other \_\_\_\_\_

2. NAME OF OPERATOR

Amoco Production Company

3. ADDRESS OF OPERATOR

P.O. Box 17675 Salt Lake City, Utah 84117

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface SW/4 NE/4 SW/4 Sec. 10, 1700' FSL &amp; 1700' FWL

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

43-003-30016

15. DATE SPUDDED

8/27/80

16. DATE T.D. REACHED

10/16/80

17. DATE COMPL. (Ready to prod.)

10/16/80

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

4200' Lake level

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD &amp; TVD

7843'

21. PLUG, BACK T.D., MD &amp; TVD

80'

22. IF MULTIPLE COMPL.,  
HOW MANY\*23. INTERVALS  
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

Surface-TD

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*

None

25. WAS DIRECTIONAL  
SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

None Lot

27. WAS WELL CORED

Yes

## 28. CASING RECORD (Report all strings set in well)

| CASING SIZE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|-------------|-----------------|----------------|-----------|------------------|---------------|
| 13-3/8"     | 54.5 & 61#      | 3385'          | 17 1/2'   | To surface       | 50'           |
|             |                 |                |           |                  |               |
|             |                 |                |           |                  |               |
|             |                 |                |           |                  |               |

## 29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|------|----------|-------------|---------------|-------------|------|----------------|-----------------|
|      |          | None        |               |             |      | None           |                 |
|      |          |             |               |             |      |                |                 |
|      |          |             |               |             |      |                |                 |

## 30. TUBING RECORD

## 31. PERFORATION RECORD (Interval, size and number)

None

## 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---------------------|----------------------------------|
|                     | None                             |
|                     |                                  |
|                     |                                  |

## 33.\* PRODUCTION

|                       |                 |  |                         |          |            |                                    |               |
|-----------------------|-----------------|--|-------------------------|----------|------------|------------------------------------|---------------|
| DATE FIRST PRODUCTION |                 | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) |                         |          |            | WELL STATUS (Producing or shut-in) |               |
|                       |                 |  |                         |          |            | P & A                              |               |
| DATE OF TEST          | HOURS TESTED    | HOLES SIZE   | PROD'N. FOR TEST PERIOD | OIL—BBL. | GAS—MCF.   | WATER—BBL.                         | GAS-OIL RATIO |
|                       |                 |  | →                       |          |            |                                    |               |
| FLOW, TUBING PRESS.   | CASING PRESSURE | ALCUTATED HOLES RATE   | OIL—BBL.                | GAS—MCF. | WATER—BBL. | OIL GRAVITY-API (CORR.)            |               |
|                       |                 | →  |                         |          |            |                                    |               |

34. DISPOSITION OF GAS (sold, used, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing information is complete and correct as determined from all available records

SIGNED

E. R. Nicholas

TITLE

Administrative Supervisor

DATE

11/14/80

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on Items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

## 37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH, INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

| FORMATION     | TOP    | BOTTOM | DESCRIPTION, CONTENTS, ETC. |
|---------------|--------|--------|-----------------------------|
| Cores #1 - #4 | 3392'  | 3451'  | Cut 59' Rec 59' Basalt      |
| #5            | 4921'  | 4940'  | Cut 19' Rec 16' Basalt      |
| #6            | 7815'  | 7819'  | Cut 4' Rec 4' Limestone     |
| DST's #1      | 3360'  | 3450'  | Salt water & mud            |
| #2            | 4880'  | 4940'  | Oil & mud                   |
| #3            | 4950'  | 5004'  | Salt water & mud            |
| #4            | 7748'  | 7819'  | Salt water & mud            |
| #5            | Failed |        |                             |
| #6            | 4855'  | 4915'  | Salt water & mud            |

38.

## GEOLOGIC MARKERS

| NAME   | TOP         |                  |
|--------|-------------|------------------|
|        | MEAS. DEPTH | TRUE VERT. DEPTH |
| Basalt | 3200'       |                  |



**Amoco Production Company**

Post Office Box 17675  
Salt Lake City, Utah 84117  
801-272-9253

Martin Zimmerman  
District Superintendent

November 4, 1980

RECEIVED

NOV 5 1980

DIVISION OF  
OIL, GAS & MINING

The State of Utah  
Department of Natural Resources  
Division of Oil, Gas, and Mining  
1588 West North Temple  
Salt Lake City, UT 84116

File: MZ-1413-031/WF

Survey Plats - State of Utah "P" #1, Section 10, T7N, R8W, Box Elder County,  
Utah

Enclosed herewith are copies of the final survey plats for the subject well.

Please note that the actual footage location as surveyed with the anchor pilings driven and the barge in place, does differ from the location indicated on the original "Application for Permit to Drill". It is requested that your files be corrected to reflect the actual footage as indicated on the attached plats.

Should you require additional information relative to the State of Utah "P" #1 well, please advise.

Martin Zimmerman

Attachments

SW/crj